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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/358,408	07/22/1999	MANABU OHGA	862.2936	1537

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EXAMINER

BHATNAGAR, ANAND P

ART UNIT	PAPER NUMBER
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2623

DATE MAILED: 01/02/2004

17

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/358,408

Applicant(s)

MANABU OHGA AND YOKOHAMA-SHI

Examiner

Anand Bhatnagar

Art Unit

2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 September 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07/22/99 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Response to Arguments

1. Applicant's amendment filed on 09/26/03 (paper #16) has been entered and made of record.
2. Applicant has amended claims 1, 8, 14, 16, 18, and 20. Presently claims 1-21 are pending.
3. Examiner withdraws the 35 USC, 1st and 2nd paragraph, rejections (for claims 1, 8, 14, 16, 18, and 20) since these claims have been amended to overcome the rejections.
4. Applicant's arguments filed on 09/26/03 (paper #16) have been fully considered but they are not persuasive.

Applicant in essence argues that the prior art of Shiraiwa et al. does not teach or suggest "obtaining a plurality of sets of colorimetric data which corresponds to respective light sources" and does not teach or suggest "selecting colorimetric data, which was measured under a condition similar to an inputted viewing condition, from the plurality of sets of colorimetric data which correspond to respective light sources." Examiner disagrees. Shiraiwa et al. discloses to colorimetric data on a plurality of light sources and to store this into a memory (Shiraiwa et al.; fig. 4, fig. 5, fig. 8 elements 304, 305, 312, 315, and col. 5 lines 1-45, where the data of different light sources (A, C, D65) is obtained and stored). This stored colorimetric data is then used to convert color data from scanner to color data for a monitor based on the ambient light "viewing condition."

Art Unit: 2623

As for the second argument of "selecting data which was measured under a condition similar to an inputted viewing condition, from a plurality of sets of colorimetric data which correspond to respective light sources" this feature is nowhere in the claim language.

Examiner refers to the rejection below.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Shiraiwa et al. (U.S. patent 6,453,066).

Art Unit: 2623

Regarding claims 1 and 8: An image processing method comprising the steps of:

obtaining a plurality of sets of colorimetric data which correspond to respective light sources (Fig. 1 element 312 and col. 5 lines 1-25, where colorimetric data is obtained for different light sources)

inputting a viewing condition (Fig. 1 element 311, where the ambient light condition is determined)

selecting colorimetric data from the plurality of colorimetric data in accordance with a relation between the input viewing condition and each light source (fig. 1 elements 304 and 311, fig. 3 elements 311 and 314, fig. 8 elements 304 and 315, col. 5 lines 1-40, and col. 10 lines 10-54, where colorimetric data is chosen based on the ambient light and then converted by a matrix which is based on the ambient light and the colorimetric data obtained from the storage section); and

conjecturing colorimetric data corresponding to the input viewing condition based on the selected colorimetric data (col. 6 lines 12-40, where the colorimetric data (RGB) is determined in accordance to the viewing light conditions by being converted "conjectured" by the matrix).

Regarding claims 14 and 16: They are rejected for the same reasons as claim 1 and 8 above. As for the following limitations:

an obtaining section, arranged to obtain a plurality of sets of colorimetric data which correspond to respective light sources (Fig.1 element 304 and 312,

Art Unit: 2623

col. 5 lines 1-25, where the signal converter obtains the colorimetric data of different ambient lights)

an inputting section, arranged to input a viewing condition (Fig. 1 elements 304 and 311, where the viewing condition is inputted into the signal converter);

a selector, arranged to select colorimetric data from the plurality of sets of colorimetric data in accordance with the input viewing condition (Fig. 3 elements 311, 313, and 314 and col. 8 lines 6-16, where the colorimetric data is selected based on the viewing conditions); and

a conjecturing section, arranged to conjecture colorimetric data corresponding to the input viewing condition based on the selected colorimetric data (Fig. 3 element 314, where the colorimetric data (RGB) is conjectured by the selected data being converted by a matrix)

Regarding claims 18 and 20: They are rejected for the same reason as claims 1, 8, 14, and 16 above. As for the following limitations: a computer program product storing a computer readable medium having computer program codes, for an image processing method (col. 11 lines 8-45).

Regarding claims 2, 9, 15, 17, and 19: The method further comprising the step of caching the conjectured colorimetric data to the profile (fig. 3 element 305 and col. 5 lines 40-52, where the conjectured colorimetric data is stored along with the profile).

Regarding claim 3: The method further comprising the step of generating conversion data for color matching based on the conjectured colorimetric data

(col. 8 lines 12-50, where the conjectured data (RGB) is used to determine the conversion data for reference white light and the monitor white light).

Regarding claims 4 and 10: The method wherein said selecting step includes selecting colorimetric data by comparing a chromaticity of a light source designated by the input viewing condition with chromaticities of the plurality of light sources to which the sets of colorimetric data correspond (col. 7 lines 60-67, col. 8 lines 1-5, and col. 10 lines 32-53, where chromaticity for ambient light is used for color matching).

Regarding claims 5 and 11: The method wherein said selecting step includes selecting colorimetric data by comparing a color temperature of a light source designated by the input viewing condition with color temperatures of the plurality to which the sets of colorimetric data correspond (col. 10 lines 32-53, where color temperature is used for color matching).

Regarding claims 6 and 12: The method wherein said conjecturing step includes conjecturing colorimetric data corresponding to the input viewing condition by using a color appearance model (col. 10 lines 32-53, where data is converted based on light conditions and color appearance model).

Regarding claims 7: The method wherein the conjectured colorimetric data is cached to the profile in correspondence with the input viewing condition (col. 5 lines 41-46, where the colorimetric data is stored with the profile and the viewing conditions such as chromaticity of the light).

Art Unit: 2623

Regarding claim 13: The method wherein the generated data is cached to another profile in correspondence with the input viewing condition (col. 5 lines 47-53, where the data is stored with the monitor profile and the viewing conditions).

Regarding claim 21: It is rejected for the combination of reasons of rejected claims 18 and 20 with rejected claims 2,9,15,17, and19.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Art Unit: 2623

Contact Information

6. Any inquiry into this communication should be directed to Anand Bhatnagar whose telephone number is 703-306-5914, whose supervisor is Amelia Au whose number is 703-308-6604, group receptionist is 703-305-4700, and group fax is 703-872-9306.

AB

Anand Bhatnagar

Art Unit 2623

December 29, 2003



SAMIR AHMED
PRIMARY EXAMINER